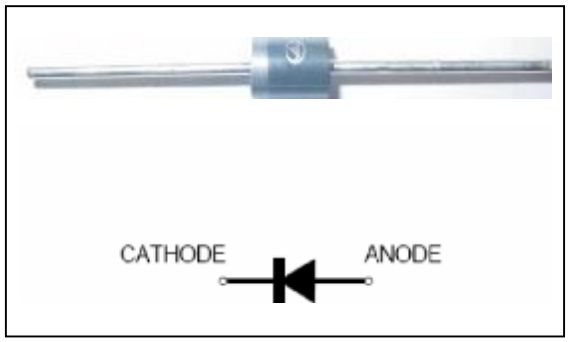
1H1 thru 1H8

Glass Passivated Junction High Efficiency Rectifiers
Reverse Voltage 50 to 1000V Forward Current 1.0A

Feature & Dimensions

* Plastic package has Underwriters Laboratory Flammability Classification 94V-0
* High temperature metallurgically bonded construction
* Capable of meeting environmental standards of MIL-S-19500
* 1.0 A operation at TA=55°C with no thermal runaway
* For use in high frequency rectifier circuits
* Fast switching for high efficiency
* Typical IR less than 1.0μA
* High temperature soldering guaranteed: 350°C/10 seconds
* 0.375" (9.5mm) lead length, 5 lbs. (2.3kg) tension



We declare that the material of product compliance with ROHS requirements

Mechanical Data

Case: JEDEC R-1, molded plastic body;
Terminals: Plated axial leads, solderable per MIL-STD-750, Method 2026
Polarity: Color band denotes cathode end
Mounting Position: Any
Weight: 0.007 oz., 0.20 g
Handling precautin:None

1.Electrical Characteristic

Maximum & Thermal Characteristics Ratings at 25°C ambient temperature unless otherwise specified.

Parameter Symbol	symbol	1H1G	1H2G	1H3G	1H4G	1H5G	1H6G	1H7G	1H8G	Unit
device marking code		1H1G	1H2G	1H3G	1H4G	1H5G	1H6G	1H7G	1H8G	
Maximum repetitive peak reverse voltage	V_{RRM}	50	100	200	300	400	600	800	1000	V
Maximum RSM voltage	V_{RSM}	35	70	140	210	280	420	560	700	V
Maximum DC blocking voltage	V_{DC}	50	100	200	300	400	600	800	1000	V
Maximum average forward rectified current 0.375" (9.5mm) lead length at T_A = 55°C	IF(AV)	1.0								A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	30								A
Maximum full load reverse current, full cycle average,0.375"(9.5mm) lead lengths at T_A = 55°C	IR(AV)	100								μA
Typical thermal resistance (Note 2)	RθJA	55								°C/W
Operating junction and storage temperature range	TJ, TSTG	–50to +150								°C

Electrical Characteristics Ratings at 25°C ambient temperature unless otherwise specified.

Parameter Symbol	symbol	1H1G	1H2G	1H3G	1H4G	1H5G	1H6G	1H7G	1H8G	Unit
Maximum instantaneous forward voltage at 1.0A	V_F	1.0			1.3		1.85			V
Maximum DC reverse current TA = 25°C at rated DC blocking voltage TA = 100°C	IR	5.0 200								μA
Typical reverse recovery time (Note 1)	trr	50					70			ns
Typical junction capacitance at 4.0V, 1MHz	CJ	20					15			PF

NOTES:
1. IF = 0.5A, IR = 1.0A, IRR = 0.25A
2. Thermal resistance from junction to ambient at 0.375” (9.5mm) lead length, P.C.B. mounted

1H1G thru 1H8G

2. Characteristic Curves (TA = 25°C unless otherwise noted)

Fig. 1 – Forward Current Derating Curve

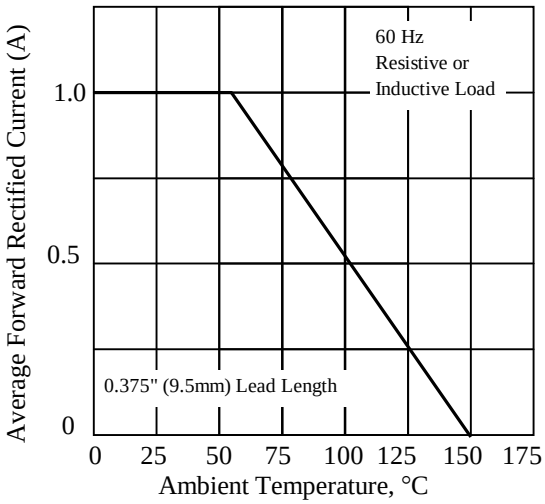


Fig. 2 – Maximum Non-repetitive Peak Forward Surge Current

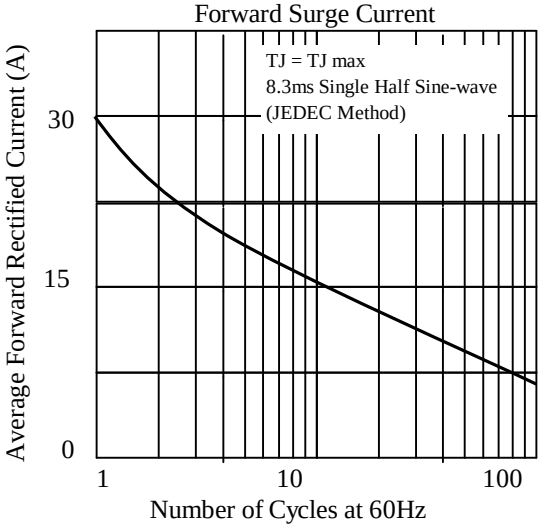


Fig 3. – Typical Instantaneous Forward Characteristics

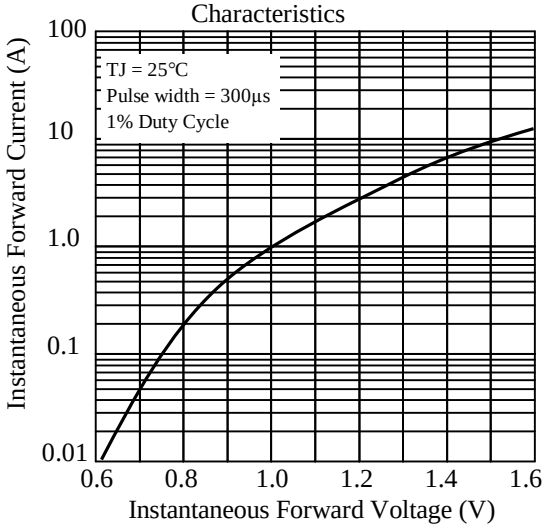


Fig 4. – Typical Reverse Characteristics

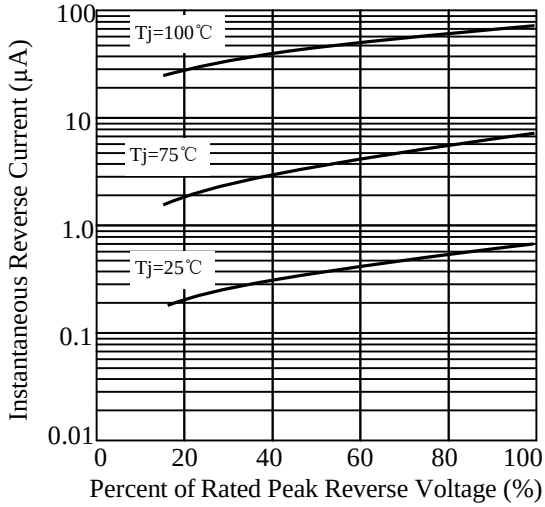


Fig 5. – typical transient thermal impedance

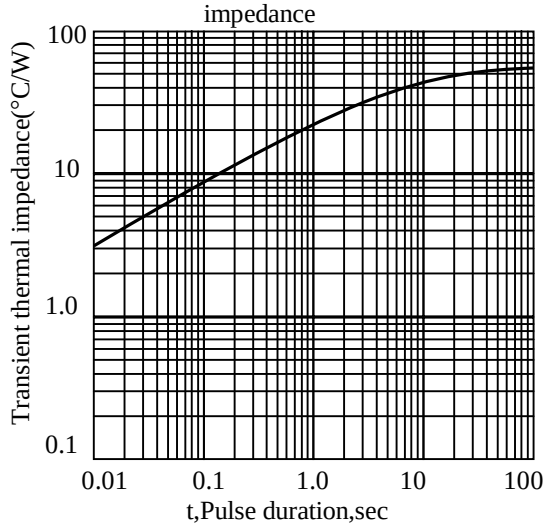
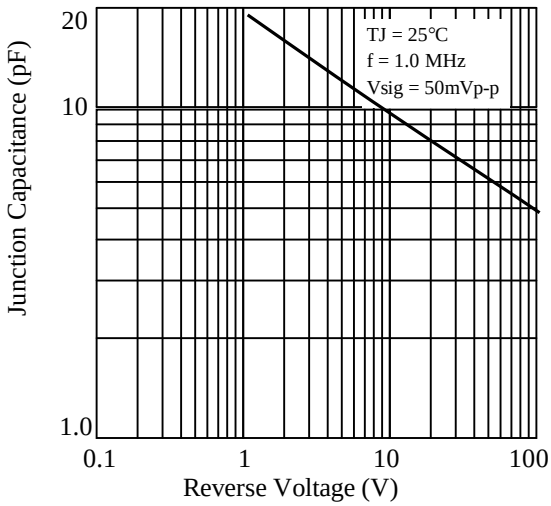
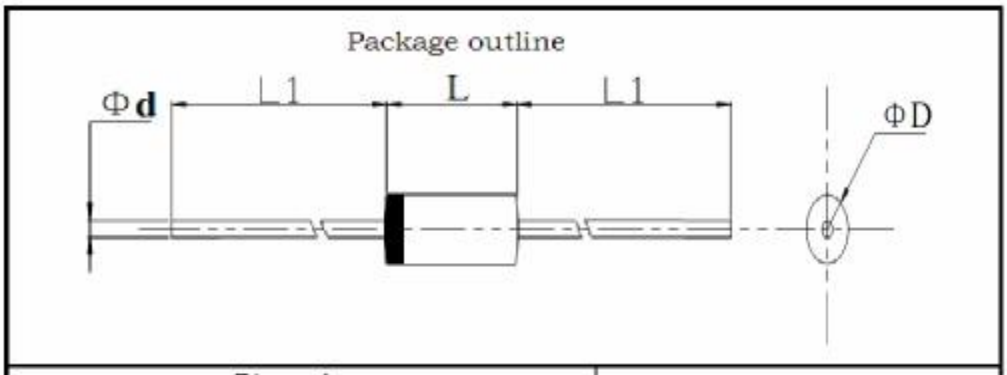


Fig 6. – Typical Junction Capacitance



1H1G thru 1H8G

3. dimension:



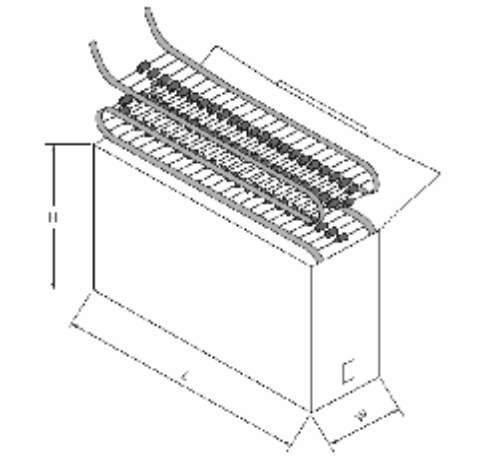
Dimensions				
	inches		mm	
	Min.	Max.	Min.	Max.
L	0.106	0.126	2.7	3.2
L1	0.787	-	20.0	-
ΦD	0.091	0.102	2.3	2.6
Φd	0.021	0.025	0.55	0.65

Note:
R-1
molded plastic case
The marking band indicates the cathode

标题： 塑封生产线轴向产品包装规范	文件编号： WI-250
	第 4 版 第 0 次修改
	第 1 页

1 弹带盒装 ammo and box

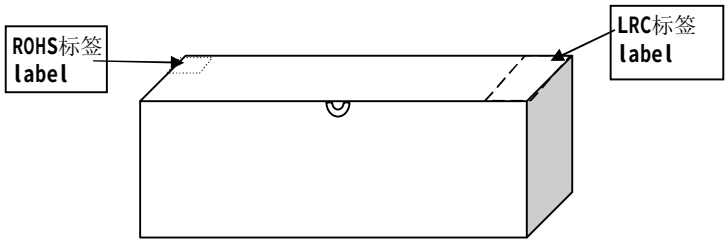
1.1. 弹带盒规格 ammo spec.



单位：mm

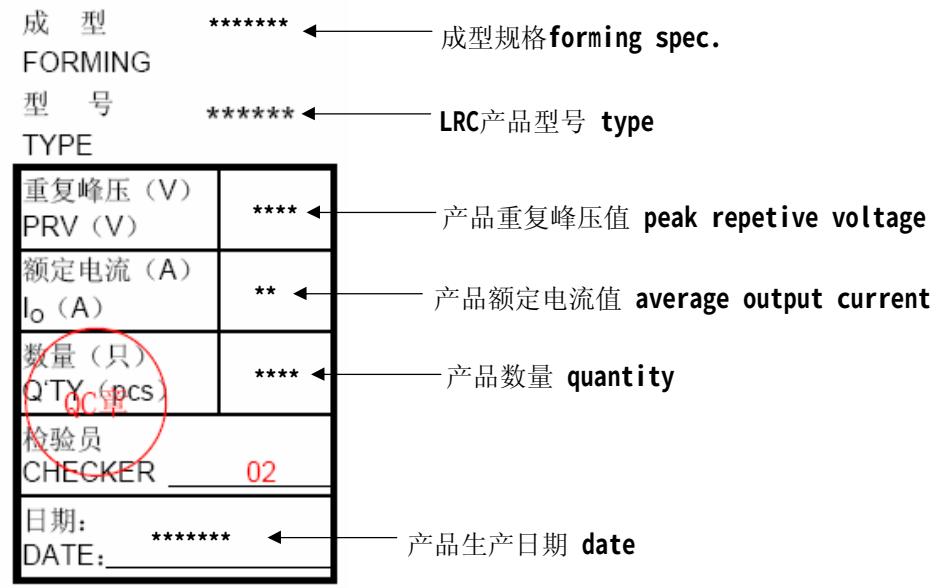
	L	W	H
T52	262±2	76±2	90±2
T42	262±2	64±2	90±2
T26	250±3	45±3	95±3

1.2 弹带内盒要求 inner box spec.



1.4 标签要求 label spec.

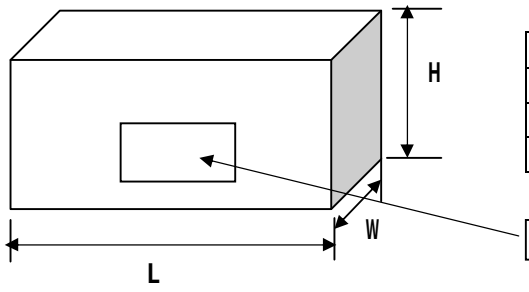
1.4.1 LRC标签 LRC label



1.4.2环保标签 environmental protection label



2.外箱规格 cartoon spec.



单位：mm

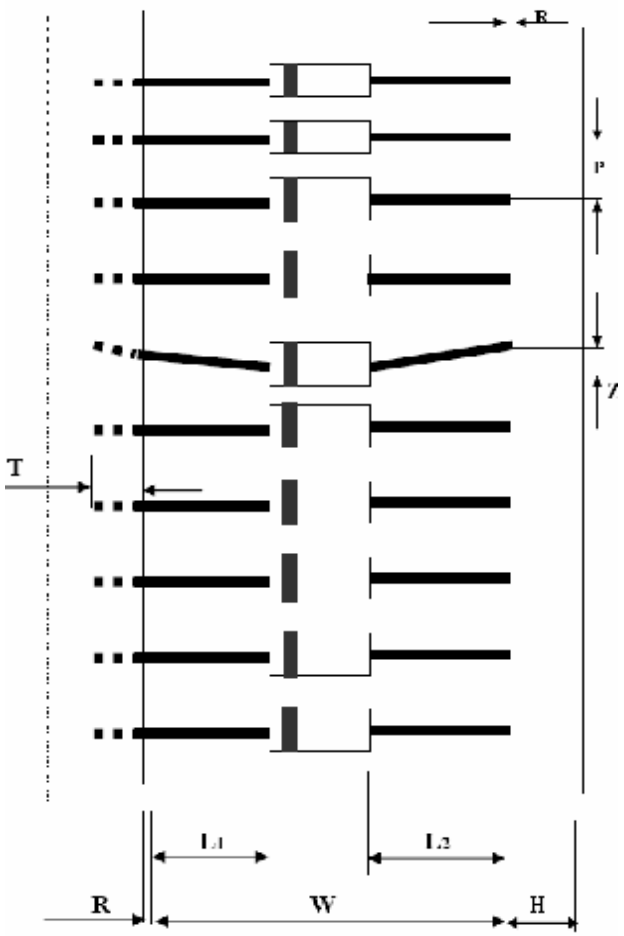
	L	W	H
T52	430±2	280±2	225±2
T42	410±2	285±2	300±2
T26	435±3	280±3	295±3

3 按以上包装方式，编带数量和外包装箱产品数量：typing and cartoon spec.

	塑封外型			
	A-405 & DO-41 & R-1	R-3	DO-15	DO-201AD
每根编带数量 quantity/ammo	3K	1.8K	2K(T52) 1.8K(T26)	0.8K
外箱数量（T52编带） quantity/cartoon	30K	18K	20K	8.0K
外箱数量（T26编带） quantity/cartoon	60K	36K	36K	-
外箱数量（T42编带） quantity/cartoon	54K	32.4K	36K	-

标题： 塑封生产线轴向产品包装规范	文件编号： WI-250
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	第 3 页

4 编带规格 brede spec



尺寸代号	编带尺寸 typing dimension					
	26/tape	35/tape	40/tape	42/tape	52/tape	52/tape#
W	26 0.0/+1.6	35 -1.0/+0.5	40 -1.0/+0.5	42 -1.0/+1.0	52 -1.0/+2.0	52 -1.0/+2.0
P	5±0.5	5±0.5	5±0.5	5±0.5	5±0.5	10±0.5
L1-L2	＜1.0	＜1.0	＜1.0	＜1.0	＜1.2	＜1.2
H	6±1.0	6±1.0	6±1.0	6±1.0	6±1.0	6±1.0
Z	＜1.0	＜1.0	＜1.0	＜1.0	＜1.0	＜1.0
R	＜1.0	＜1.0	＜1.0	＜1.0	＜1.0	＜1.0
T	＞3.5	＞3.5	＞3.5	＞3.5	＞3.5	＞3.5

注: 52编带# 为DO-201AD编带规格 "52编带#" just for D0-201AD

1. 红白编带厚度为0.05mm；两种胶带各自之间无明显色差；编带要求均为胶带。
   The typing thickness is 0.05mm and color is obvious difference
2. 两端引带20~40cm. Typing lead over 20~40cm
3. 红色编带一端为二极管“负极”；白色编带一端为二极管“正极”。
   red color is cathode ,white color is anode
4. 无卤 green epoxy compound（无卤产品才贴HF only）

Green

1H1G thru 1H8G

4. Update Record

版次	更新记录	更新作者	更新日期
1	第一版	余波	2011-4-12
2	增加包装规范	周杰	2011-7-18